

# PDCA12-20

## Long Wavelength 12 x 20 Gb/s Photodiode Array

### Product Description

The PDCA12-20 is a very high speed 12 channel photodiode array with a coplanar pad layout and an optical aperture with a diameter of 20  $\mu\text{m}$  enabling easy coupling to single-mode fibers. The top illuminated photodiode array is optimized for high-throughput parallel optical interconnects up to 20 Gb/s per channel and has a photodiode pitch of 250  $\mu\text{m}$  for coupling to standard fiber ribbon cable. Each photodiode has a low capacitance and achieves full speed at a bias voltage of only 1.5 V.

### Highlights

- Large bandwidth: 20 GHz
- Low dark current: 5 nA
- Low capacitance: 100 fF

### Applications

- Parallel optical interconnects

### Availability

- Volume production



Dimensions: 3140 x 500  $\mu\text{m}$

### Characteristics (T = 25 °C)

Parameter	Sym	$U_R$	Min	Typ	Max	Unit
Diameter of optical aperture	$\emptyset$			20		$\mu\text{m}$
Number of photodiode elements				12		
Responsivity $\lambda = 1550 \text{ nm}$	R	5 V	0.80			A/W
Dark current $T = 25 \text{ }^\circ\text{C}$	$I_D$	5 V		5	20	nA
$T = 85 \text{ }^\circ\text{C}$					350	
Bandwidth	B	5 V	20			GHz
Total capacitance	C	5 V			100	fF

For more product information visit [www.albisopto.com](http://www.albisopto.com)



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